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(54) PHASE CONTRAST FILM AND METHOD FOR MANUFACTURING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a phase contrast film in which the phase contrast decreases with the shorter wavelength for the measurement in one film.

SOLUTION: The phase contrast film is a single layer film consisting of a polymer aligned film containing a synthetic polymer having a cyclic structure in the direction almost perpendicular to the main chain and a non-liquid crystal compound having optical anisotropy. The phase contrast of the above phase contrast film satisfies formula (1): $R(\lambda_1)/R(\lambda_2) < 1$ at the wavelength λ and the haze of the film is $\leq 3\%$. In the formula, $R(\lambda_1)$ and $R(\lambda_2)$ represent the phase differences in the plane of the polymer aligned film at wavelengths λ_1 nm and λ_2 nm ($400 < \lambda_1$ and $\lambda_2 < 700$ and $\lambda_1 < \lambda_2$), respectively.

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